

NOAA Hydrographic Services Review Panel

Public Meeting, Oahu, HI, September 22-24, 2020

Topics, times and speakers are subject to change, please consult latest online agenda

HSRP Online Meeting Registration / RSVP:

https://docs.google.com/forms/d/e/1FAIpQLSe4VObzHaljatxUPYeZp9fYLPJ0JYwBRNvqXAnRQeO6Z_xauQ/viewform?vc=0&c=0&w=1

HSRP WEBINAR: <https://attendee.gotowebinar.com/rt/6546237546550851853>

HSRP WEBSITE: <https://www.nauticalcharts.noaa.gov/hsrp/hsrp.html>

***ALL topics, times, speakers are subject to change; all times are Hawaii Daylight Time (HDT)**

Tuesday, Sept 22	Wednesday, Sept 23	Thursday, Sept 24
<ul style="list-style-type: none"> - 9am Opening protocol, opening session - NOAA and NOS leadership - Federal partners - Congressional, state, local - 11:30am invited speaker 	<ul style="list-style-type: none"> - 8:30am Recap on prior day - Working Group updates - Stakeholder session: supply chain - <i>Public comment period</i> - 12:15 Meeting concludes 	<ul style="list-style-type: none"> - 8:30am Recap on prior day - 9:30am Special session: Addressing Flooding and SLR Challenges - <i>Public comment period</i>
<p>12-1:15 LUNCH on your own (HSRP members have a working lunch)</p>	<p>(HSRP members have a working lunch)</p>	<p>12-1:15 LUNCH on your own (HSRP members have a working lunch)</p>
<ul style="list-style-type: none"> - Special sessions: - Big ocean mapping session: President’s EEZ Mapping and Alaska and Seabed 2030 Initiative - Pacific Mapping session - 3:15 Public comment period - NOS Tri-Office Director - HSRP working groups discussions and issue papers - 5:30pm Meeting concludes 		<ul style="list-style-type: none"> - 1:15-2:15 SME updates and flash briefings - 2:15 - 4pm HSRP working group discussions, issue papers, priorities: Planning and Engagement, Tech, and Arctic WG - HSRP recommendations and letter - 4:45-5pm Meeting wrap up - 5pm Meeting concludes

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Web Agenda for Public Meeting*, Oahu, HI, September 22-24, 2020

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Tuesday, September 22 – Day One

MEETING VENUE: Hotel to be announced, Oahu, HI

RSVP: This is a public meeting. To help with planning, please register here:

https://docs.google.com/forms/d/e/1FAIpQLSe4VObzHaljatxUPYeZp9fYLPJ0JYwBRNvqXAnRQeO6Z_xauQ/viewform?vc=0&c=0&w=1

DRESS: Business casual, Aloha wear **NOAA Uniform:** summer white (short sleeves)

Morning

HSRP PUBLIC MEETING DAY 1 CONVENES

9:00 – 11:00

- **Opening Hawaiian cultural protocol**, Kalani Quiocho, Native Hawaiian Program Specialist, Papahānaumokuākea Marine National Monument, Office of National Marine Sanctuaries, National Ocean Service (NOS) National Oceanic and Atmospheric Administration (NOAA)
- **Ed Saade**, HSRP chair
- **Rear Admiral TBD**, director, Office of Coast Survey, NOS, NOAA, and HSRP designated federal official (DFO)
- **Nicole R. LeBoeuf**, acting Assistant Administrator, NOS, NOAA
- **Swear in 2 new HSRP members - Dr. Neil Jacobs**
- **Dr. Neil Jacobs**, Assistant Secretary of Commerce for Environmental Observation and Prediction, performing the duties of Under Secretary of Commerce for Oceans and Atmosphere
- **Senator Brian Schatz** or representative (invited)
- **Brigadier General Thomas J. Tickner**, Commander, Pacific Ocean Division, U.S. Army Corps of Engineers
- **Rear Admiral Keith Sibley**, Commander, 14th U.S. Coast Guard District
- **Dr. John Randolph Wood**, Director, Indo-Pacific Outreach, U.S. Indo-Pacific Command (J9) (PACOM)
- **TBD**, State of Hawaii (invited)
- **Justin Gruenstein**, Deputy Director, Office of Climate Change, Sustainability and Resiliency, City and County of Honolulu

11:00 – 11:15 **Discussion with HSRP**

11:15 – 11:30 Break

11:30 – 11:50 **NOAA OMAO Fleet Recapitalization Update and Implications**

- **Rear Admiral Nancy Hann**, Deputy Director for Operations, NOAA Office of Marine and Aviation Operations (OMAO), and Deputy Director, NOAA Commissioned Officer Corps

An update on the 2016 NOAA Fleet Plan.

11:50 – 1:15 **Lunch on your own** (HSRP members have a working lunch)

1:15 – 2:15 *An Ocean Mapping Moment of Big Ideas: Seabed 2030 and The Presidential Memo on Ocean Mapping of the U.S. EEZ and Nearshore Alaska*

Moderator and introduction: Rear Admiral Shepard M. Smith

Big ocean mapping ideas are afoot such as the SeaBed 2030 mapping initiative and The President's Memo on Ocean Mapping and others.

- **Dr. Alan Leonardi**, Director, Ocean Exploration and Research, Office of Oceanic and Atmospheric Research, NOAA

Presidential Memorandum, "Ocean Mapping of the United States Exclusive Economic Zone and the Shoreline and Nearshore of Alaska" An update on the status of Ocean Mapping of the EEZ.

- **Nicole LeBoeuf**, Acting Administrator, NOS/NOAA

"Response to the Presidential Memorandum for the Shoreline and Nearshore of Alaska"

- **Dr. Larry Mayer**, HSRP member and co-Director, University of New Hampshire, Center for Coastal Ocean Mapping and NOAA-UNH Joint Hydrographic Center

"Seabed 2030" An update on the status with a closer look at efforts in the North Pacific and new technologies to bring the aspirational goal of Seabed 2030 closer to reality.

- **David Millar**, GEBCO Guiding Committee Member, Government Accounts Director, Americas, Fugro
- "The Role of the Private Sector in Seabed 2030"** The motivation for and an update on private sector participation.

2:15 – 3:15 *Partnerships and Priorities: Mapping Collaborations in the Pacific Region*

Moderators and introduction: Joyce Miller, former HSRP member; **Captain Rick Brennan**, Chief, Hydrographic Surveys Division, OCS, NOS, NOAA;

Across the U.S. Pacific, much of the EEZ is still unmapped. NOAA, federal, academic, commercial partners, and users and stakeholders discuss current and future projects, gaps, and priorities for mapping, data and services. Speakers offer suggestions for how NOAA can direct its finite resources to enhance sound, efficient, and environmentally sound maritime operations.

- **Dr. Jennifer Samson**, Supervisory Research Ecologist, Ecosystem Sciences Division, Pacific Islands Fisheries Science Center, National Marine Fisheries Service

"The value of high quality mapping products to support and improve fisheries science in the Pacific Island Region" Accurate and complete mapping information (including quality backscatter) is critical for fisheries and habitat assessment and monitoring efforts that allow us to more effectively meet the NOAA Fisheries mission to conserve and manage coastal and marine ecosystems and resources.

- **Dr. Tina Neal**, Scientist in Charge, U.S. Geological Survey Hawaiian Volcano Observatory
- "Understanding and addressing geohazards in the marine environment"** A review of data and knowledge gaps and priorities for geoscience agencies like USGS and others interested in the marine environment from the perspective of natural hazards including volcanic eruptions, lava-water interactions, oceanic island flank instabilities.

- **Dr. Carlie Wiener**, Director, Marine Communications, Schmidt Ocean Institute

"Schmidt Ocean Institute: A Million Square Miles Mapped and Counting..."

Since 2013 [Schmidt Ocean Institute](#) has focused on mapping more than a million square kilometers of remote regions that require high-resolution seafloor imagery to contribute to expansion or additional protections. Some of its large mapping efforts have focused on the [Papahānaumokuākea Marine National Monument](#) in Hawaii, [Cocos Island National Park](#) in Costa Rica, and the [Phoenix Islands Protected Area](#) in Kiribati. "

- **Lindsay Gee**, Mapping and Science Coordinator, Ocean Exploration Trust

"NAUTILUS activities in the Pacific 2021-2022 and the Ocean Exploration Cooperative Institute"

3:15 – 3:30 **Public comment period – in room; written comments via webinar/email**

- 3:30 – 3:45** **Break**
- 3:45 – 4:30** **HSRP discussion – HSRP Planning and Engagement working group (P&E WG)**
Julie Thomas and Dave Maune, chairs, P&E WG
- 4:30 – 5:15** **Opportunities and Challenges for the NOS’s Navigation Services Portfolio**
National Ocean Service’s office directors address navigation services such as the 2022 updates to the National Spatial Reference System (NSRS), datums, the ocean mapping plan, surveying, charting, remote sensing, photogrammetry, positioning, and water levels in support of “seamless data.”
- **Brad Kearse**, deputy director, National Geodetic Survey (NGS)
 - **Richard Edwing**, director, Center for Operational Oceanographic Products and Services (CO-OPS)
 - **Rear Admiral Shepard M. Smith**, director, Office of Coast Survey (OCS)
- 5:15 – 5:30** **Recap and day 1 wrap up**
HSRP PUBLIC MEETING DAY 1 ADJOURNS

Wednesday, September 23 – Day Two

- Morning **HSRP PUBLIC MEETING DAY 2 CONVENES**
- 8:30 – 9:15** **Recap and discussion of day 1**
- **Ed Saade**, HSRP chair and **Rear Admiral TBD**, OCS, NOS, NOAA
- 9:15 – 10:30** **Stakeholder Perspectives: Sustaining a Vulnerable Supply Chain in Hawaii**
Moderator and introduction: Captain Anne McIntyre, HSRP member, and **TBD**, Chief, Navigation Services Division, OCS/NOS/NOAA
Hawaii relies almost entirely on the marine transportation system for delivery of day to day goods. Stakeholders discuss the vulnerabilities within this supply chain and how they rely on NOAA’s navigation products, data and services to sustain it.
- **Derek Chow**, deputy director, Hawaii DOT-Harbors Division
- “Hawaii’s Harbor System”* The Hawaii Harbor System is critical to sustaining the economy and livelihood of Hawaii’s residents, tourism industry, and presence of the US military, as well as security throughout the Pacific.
- **Ethan Creps**, vessel ops manager, Matson Navigation
 - **Captain Whit Olson III**, Regional Operations Manager, Foss Maritime Company, Hawaii Region & Young Brothers, LLC
 - **Freedom Dennis**, port captain, Sause Bros. Ocean Towing Co., Inc.
 - **Captain Tom Heberle**, president, Hawaii Pilots Association
- 10:30 – 10:45** **Public comment period**
- 10:45 – 11:00** **Break**
- 11:00 – 12:00** **HSRP working group discussions – priorities, issue papers, next steps**
- **HSRP Planning and Engagement working group (P&E WG) discussion**, Julie Thomas, Dave Maune, chairs; HSRP matrix of topics, future meetings, issue paper(s): emergency response / AI
 - **Arctic Priorities Working Group, Captain Ed Page**, chair;
Traffic analysis of marine shipping in the Arctic and the concerns with communications.
 - **Technology Working Group, Lindsay Gee, Deanne Hargrave**, co-chairs
- 12:00 – 12:15** **HSRP Day 2 wrap up**
HSRP DAY 2 ADJOURNS

Thursday, September 24 – Day Three

Morning **HSRP PUBLIC MEETING DAY 3 CONVENES**

8:30 – 9:30 **Public meeting reconvenes and day 2 recap:**
Ed Saade, HSRP chair and **Rear Admiral TBD**, DFO, OCS, NOS, NOAA

9:30 – 11:45 **The Role of the Pacific ‘Ohana in Keeping Your Feet Dry on the Shoreline: NOS and NOAA’s Flooding, Inundation, Sea Level Data, Products and Services**

Measuring, monitoring, and mitigating flooding and sea level change in Federal, State, regional and local projects in Hawaii and the Pacific Islands and the contribution of NOAA’s critical foundational data. Feedback from science, service, and stewardship stakeholders on the ability of current NGS, CO-OPS, and OCS resources to address sea-level rise questions and needs.

Moderators: **Julie Thomas**, HSRP member, and **Melissa Iwamoto**, Director and PI, Pacific Islands Ocean Observing System (PaIOOS)

Overview: **Nicole LeBoeuf**, acting assistant administrator, NOS, NOAA

- **Dr. Charles “Chip” Fletcher**, Associate Dean for Academic Affairs, Professor, Department of Earth Sciences, School of Ocean and Earth Science and Technology, University of Hawai’i at Mānoa, and Vice-Chair of the Honolulu Climate Change Commission

“SLR Impacts: Model Products and Agency Responses”

- **Jessica Podoski**, PE, Coastal Engineer, U.S. Army Corps of Engineers, Honolulu District

“Impacts of Sea Level Rise to US Army Corps of Engineers’ Projects and Partners in the Pacific” A discussion of USACE missions in the Pacific Islands and Asia; climate change policy, guidance, and tools; and the impacts of sea level rise at various Federal project locations. It will note how NOAA data is used in the assessment of sea level rise vulnerabilities, as well as additional data that would be helpful.

10:45 – 11:00 **Break**

- **Edwin Sniffen**, Deputy Director, Hawaii DOT-Highways Division
- **Tara M. Owens**, Coastal Processes and Hazards Specialist, University of Hawaii Sea Grant Program, Science and Technical Advisor to County of Maui

“Bridging the Gap Between Science and Coastal Management in Hawaii” A look at some of the ways that sea level rise is already affecting Maui communities and provide some examples of how Maui is adapting by using science-based coastal management approaches.

- **Edward Carlson**, Pacific Region Geodetic Advisor, National Geodetic Survey, NOS, NOAA

“A Geodetic Advisor’s Perspective” He will review the array of geospatial technologies and NOAA data used by the stakeholders in the Pacific to meet navigation and coastal management needs.

11:45 **Public comment period**

12:00 – 1:15 **Lunch on your own** (HSRP members have a working lunch)

Afternoon **HSRP PUBLIC MEETING RECONVENES**

1:15 – 2:15 **Expert updates and flash presentations**

- **Darren Wright**, national marine program leader, Marine, Tropical and Tsunami Services Branch, National Weather Service, NOAA **“NWS Update”**

- **Mike Aslaksen**, Chief, Remote Sensing Division, NGS: topic: lidar and hydrographic surveys, unmanned aerial systems and hydrographic operations/training
- **Galen Scott**, NGS Constituent Resources Manager, NGS, ***“NGS' GPS on Bench Marks Program: Crowdsourced Data for Better Models and Tools”***
As part of modernizing the National Spatial Reference System (NSRS), NGS will produce the 2022 Transformation Tool, which will enable mapping grade conversions from current vertical datums to the North American-Pacific Geopotential Datum of 2022 (NAPGD2022). The GPSONBM program is a crowdsourced data collection effort where NSRS users can collect GPS data on existing bench marks and submit the data to NGS to improve the quality of the transformation in their local areas.
- **Lucy Hick**, Customer Affairs Branch, NSD, OCS; ***“Raster Chart Sunset Plan”***
- **Laura Rear McLaughlin**, CO-OPS; ***“National Tidal Datum Epoch update”***
- **Christine Burns**, OCS; ***“Precision Navigation update”***
- Other speakers / topics TBA

2:15 – 3:30 **HSRP working groups follow-up: priorities, issue papers, recommendations**

3:30 – 3:45 **Break**

3:45 – 4:45 **HSRP member discussion on recommendations and HSRP round robin**

4:45 – 5:00 **HSRP meeting recap and closing comments**

5:00 **Closing Hawaiian cultural protocol**, Kalani Quiocho, Native Hawaiian Program Specialist, Papahānaumokuākea Marine National Monument, Office of National Marine Sanctuaries, NOS, NOAA

HSRP DAY 3 and PUBLIC MEETING CONCLUDES